

Fig. 1

(a) Mr. Akiyama's address book

name	address	encrypting key	encrypting software	decrypting key	decrypting software
X Company	Xcp@kabu.....	KCax	Cax	KPxa	Pxa
(Mr.) Ito	Ito@asn.....	KCai	Cai	KPia	Pia
(Mr.) Saito	Saito@uu.....	KCas	Cas	KPsa	Psa
(Mr.) Baba		KCab	Cab	KPba	Pba

(b) Mr. Ito's address book

name	address	encrypting key	encrypting software	decrypting key	decrypting software
X Company	Xcp@kabu.....	KCix	Cix	KPxi	Pxi
(Mr.) Akiyama	Akiyama@ss.....	KCia	Cia	KPai	Pai
(Mr.) Saito	Saito@uu.....	KCis	Cis	KPsi	Psi
(Mr.) Baba	Baba@yy.....	KCib	Cib	KPbi	Pbi

(c) X Company's address book of the clients

name	address	encrypting key	encrypting software	decrypting key	decrypting software
(Mr.) Akiyama	Akiyama@ss.....	KCxa	Cxa	KPax	Pax
(Mr.) Ito	Ito@asn.....	KCxi	Cxi	KPix	Pix
(Mr.) Endo	Endo@kk.....	KCxe	Cxe	KPex	Pex
(Mr.) Yamada	Yamada@yama..	KCxy	Cxy	KPyx	Pyx

Fig.2

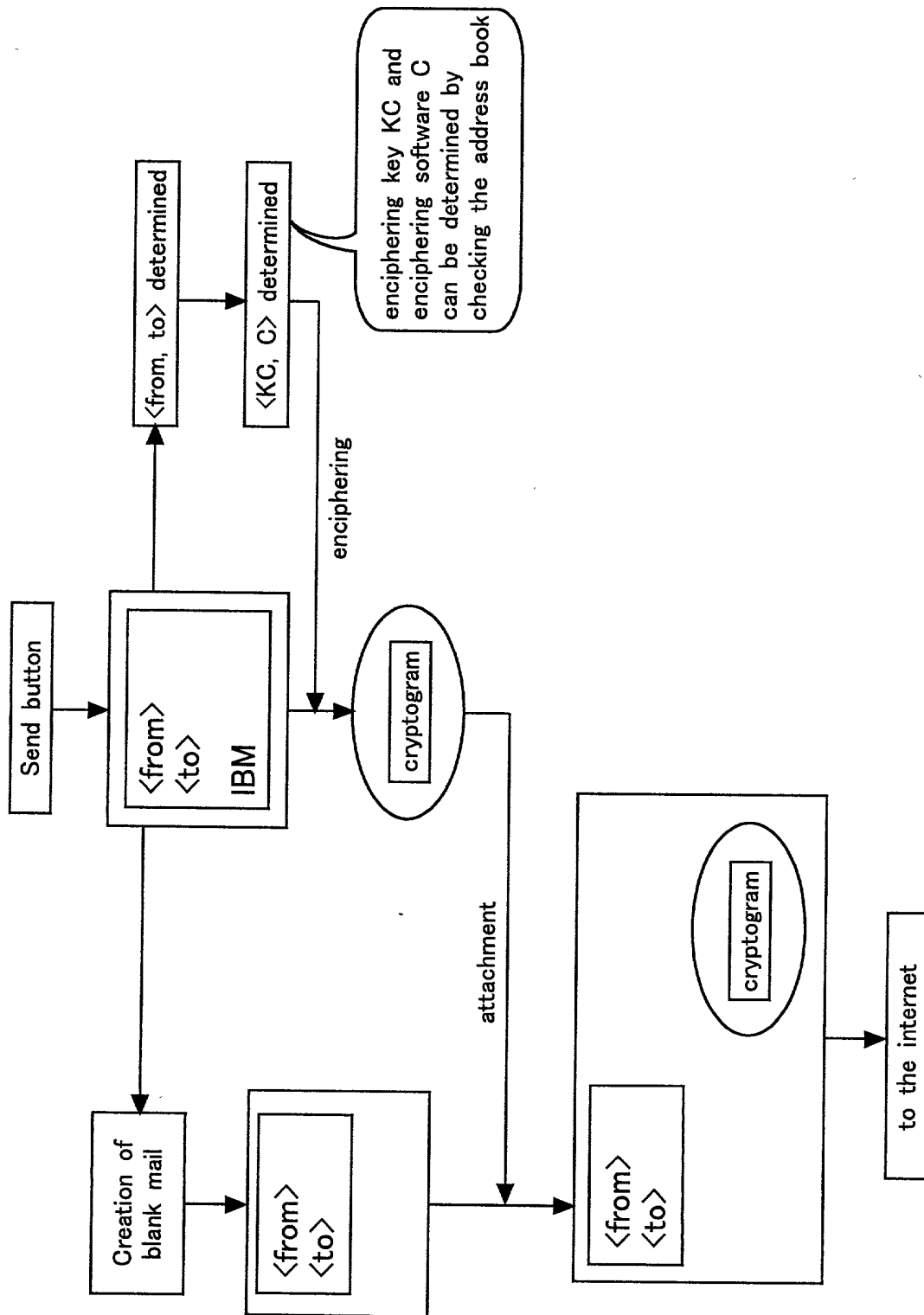


Fig.3

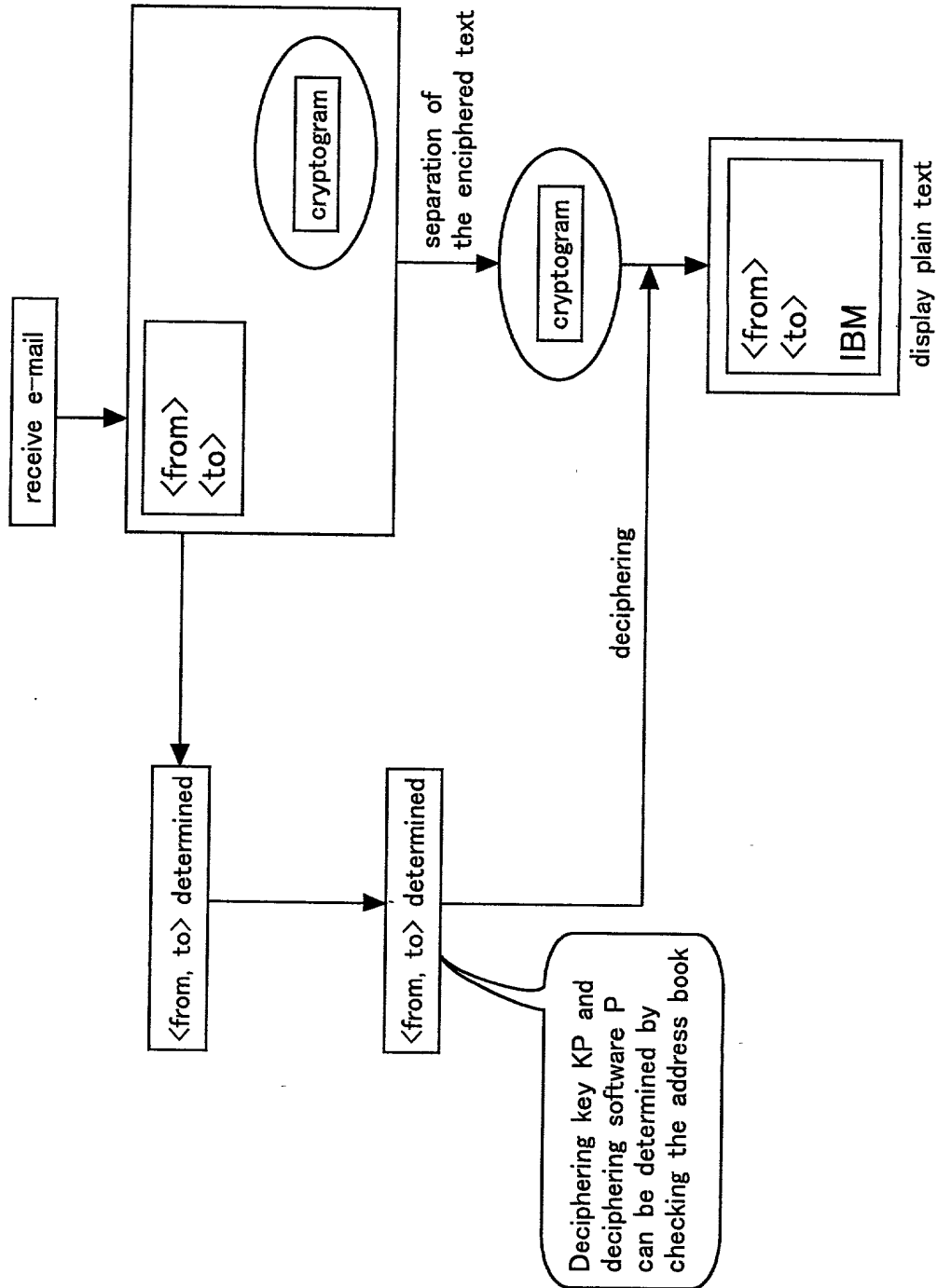


Fig.4

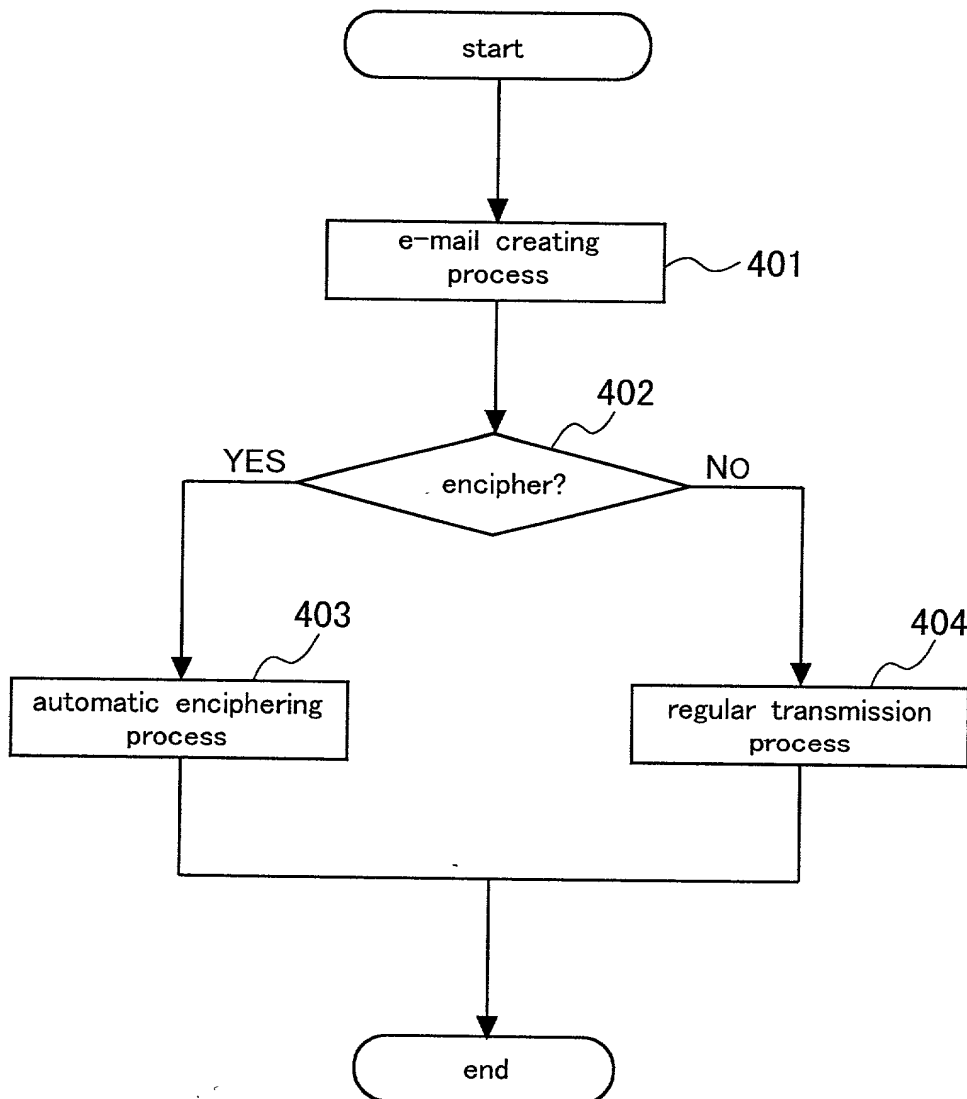


Fig.5

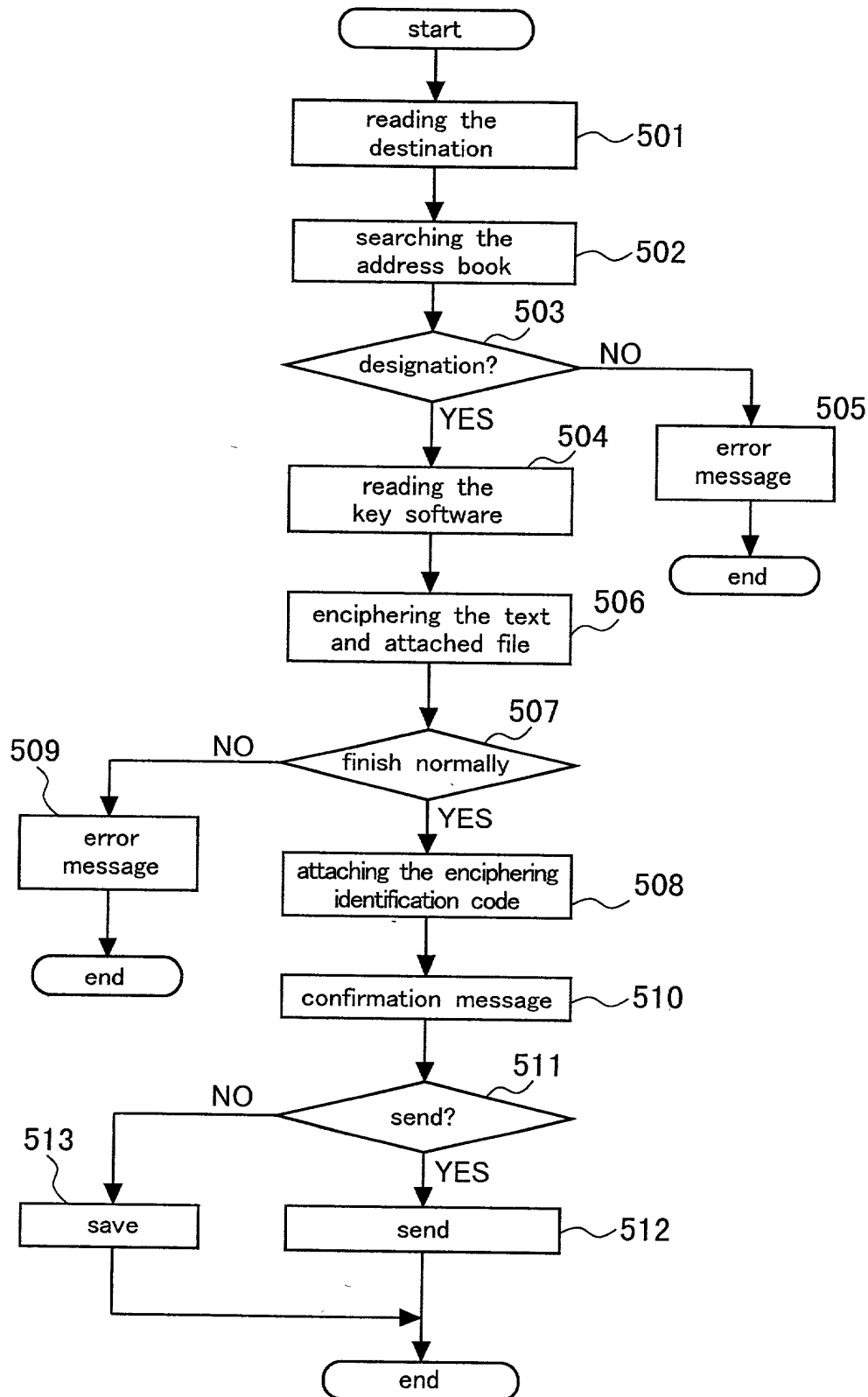


Fig.6

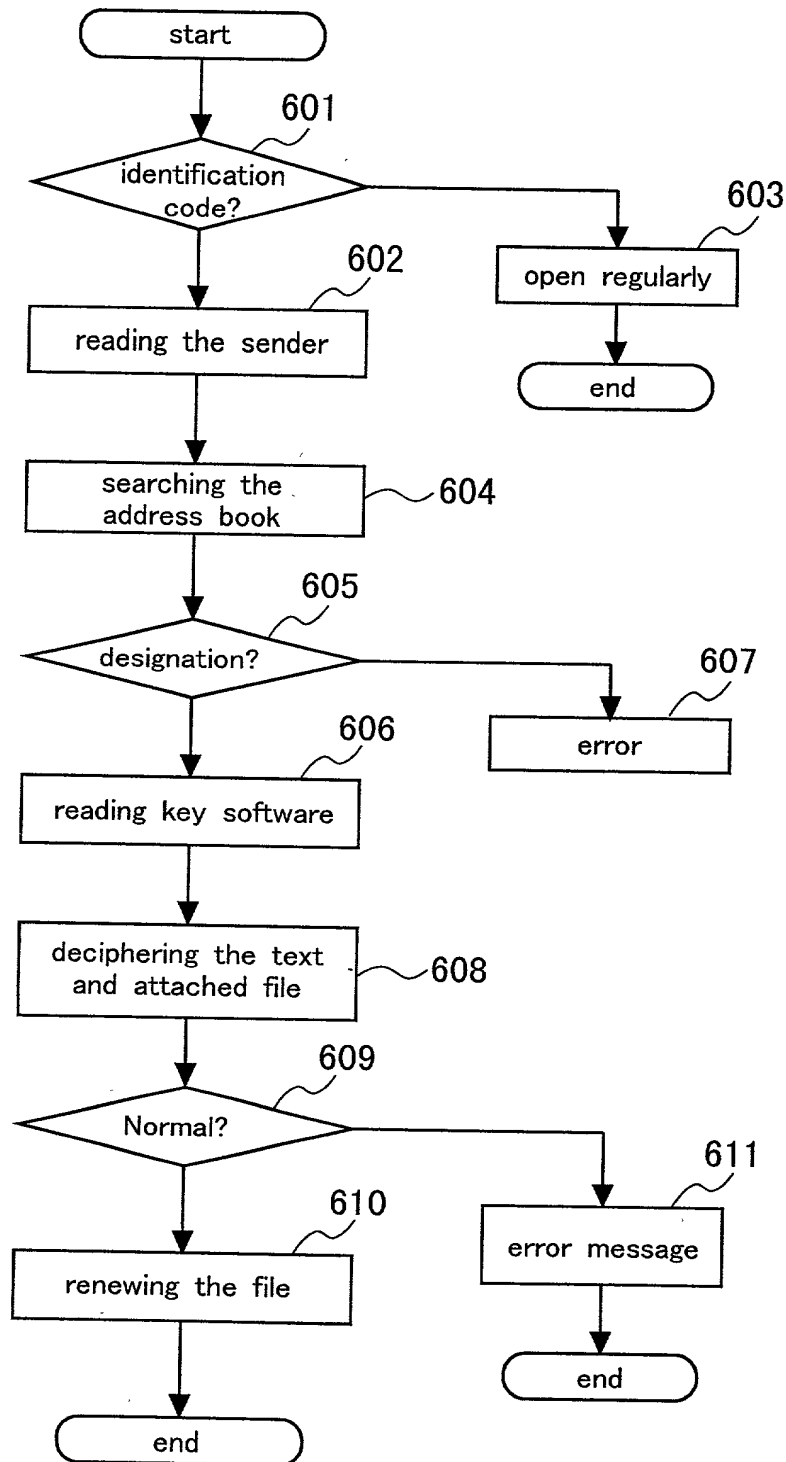


Fig. 7

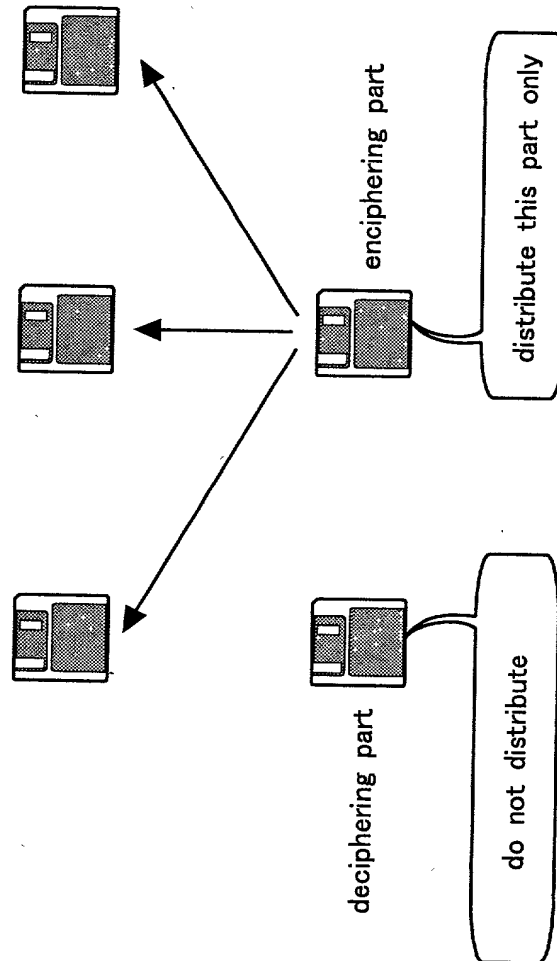


Fig.8

(a) Mr. Akiyama's address book

name	address	encrypting key	encrypting software	decrypting key	decrypting software
X Company	Xcp@kabu....	KCax	Cax	25	P
(Mr.) Ito	Ito@asn....	KCai	Cai	1	P
(Mr.) Saito	Saito@uu....	KCas	Cas	-2	P
(Mr.) Baba	Baba@yy....	KCab	Cab	22	P

(b) Mr. Ito's address book

name	address	encrypting key	encrypting software	decrypting key	decrypting software
X Company	Xcp@kabu....	KCix	Cix	KPxi	Pxi
(Mr.) Akiyama	Akiyama@ss....	(-1)	C	KPai	Pai
(Mr.) Saito	Saito@uu....	KCis	Cis	KPsi	Psi
(Mr.) Baba	Baba@yy....	KCib	Cib	KPbi	Pbi

(c) Mr. Saito's address book

name	address	encrypting key	encrypting software	decrypting key	decrypting software
X Company	Xcp@kabu....	KCsx	Csx	KPxs	Pxs
(Mr.) Ito	Ito@asn....	KCsi	Csii	KPis	Pis
(Mr.) Akiyama	Akiyama@ss....	2	C	KPas	Pas
(Mr.) Baba	Baba@yy....	KCsb	Csb	KPbs	Pbs



Fig.9

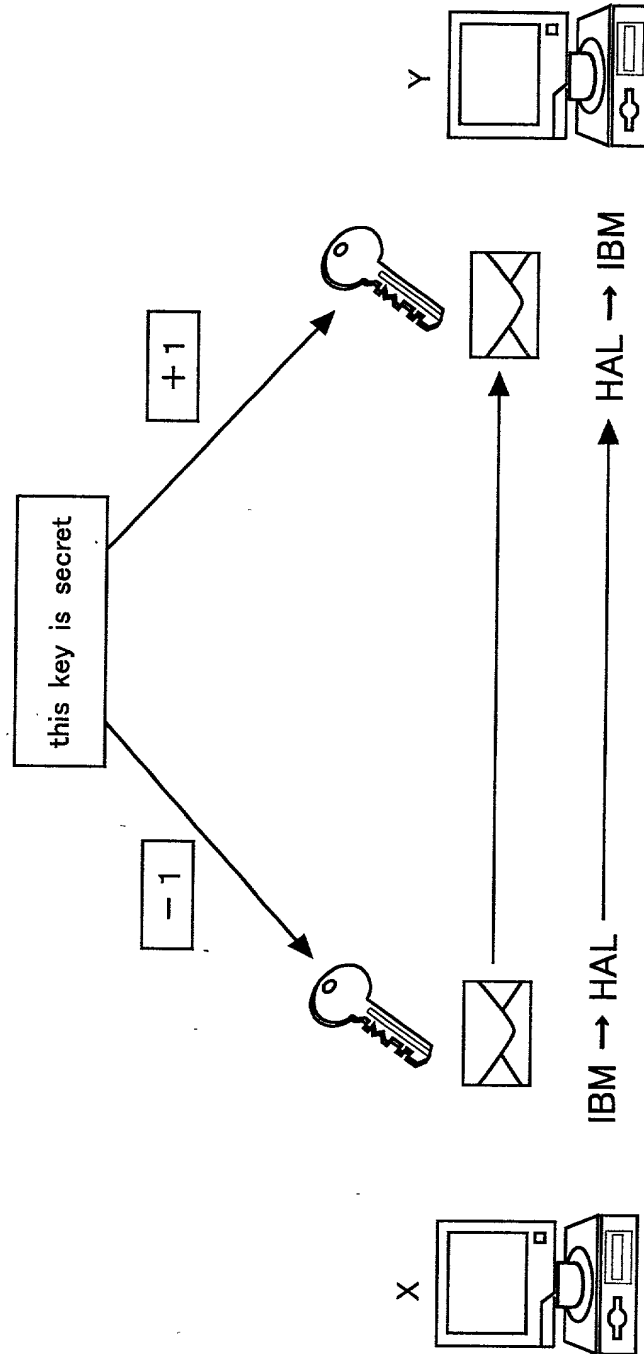


Fig.10

(a) Mr. Akiyama's address book

name	address	enciphering key	enciphering software	deciphering key	deciphering software
X Company	Xcp@kabu....	KCax	Cax	d, n	PS
(Mr.) Ito	Ito@asn....	KCai	Cai	d, n	PS
(Mr.) Saito	Saito@uu....	KCas	Cas	d, n	PS
(Mr.) Baba	Baba@yy....	KCab	Cab	d, n	PS

(b) Mr. Ito's address book

name	address	enciphering key	enciphering software	deciphering key	deciphering software
X Company	Xcp@kabu....	KCix	Cix	KPxi	Pxi
(Mr.) Akiyama	Akiyama@ss....	e, n	C	KPai	Pai
(Mr.) Saito	Saito@uu....	KCis	Cis	KPsi	Psi
(Mr.) Baba	Baba@yy....	KCib	Cib	KPbi	Pbi

(c) Mr. Saito's address book

name	address	enciphering key	enciphering software	deciphering key	deciphering software
X Company	Xcp@kabu....	KCsx	Csx	KPxS	PxS
(Mr.) Ito	Ito@asn....	KCsl	Csl	KPiS	PiS
(Mr.) Akiyama	Akiyama@ss....	e, n	C	KPaS	PaS
(Mr.) Baba	Baba@yy....	KCSb	Csb	KPBs	Pbs

Fig. 11

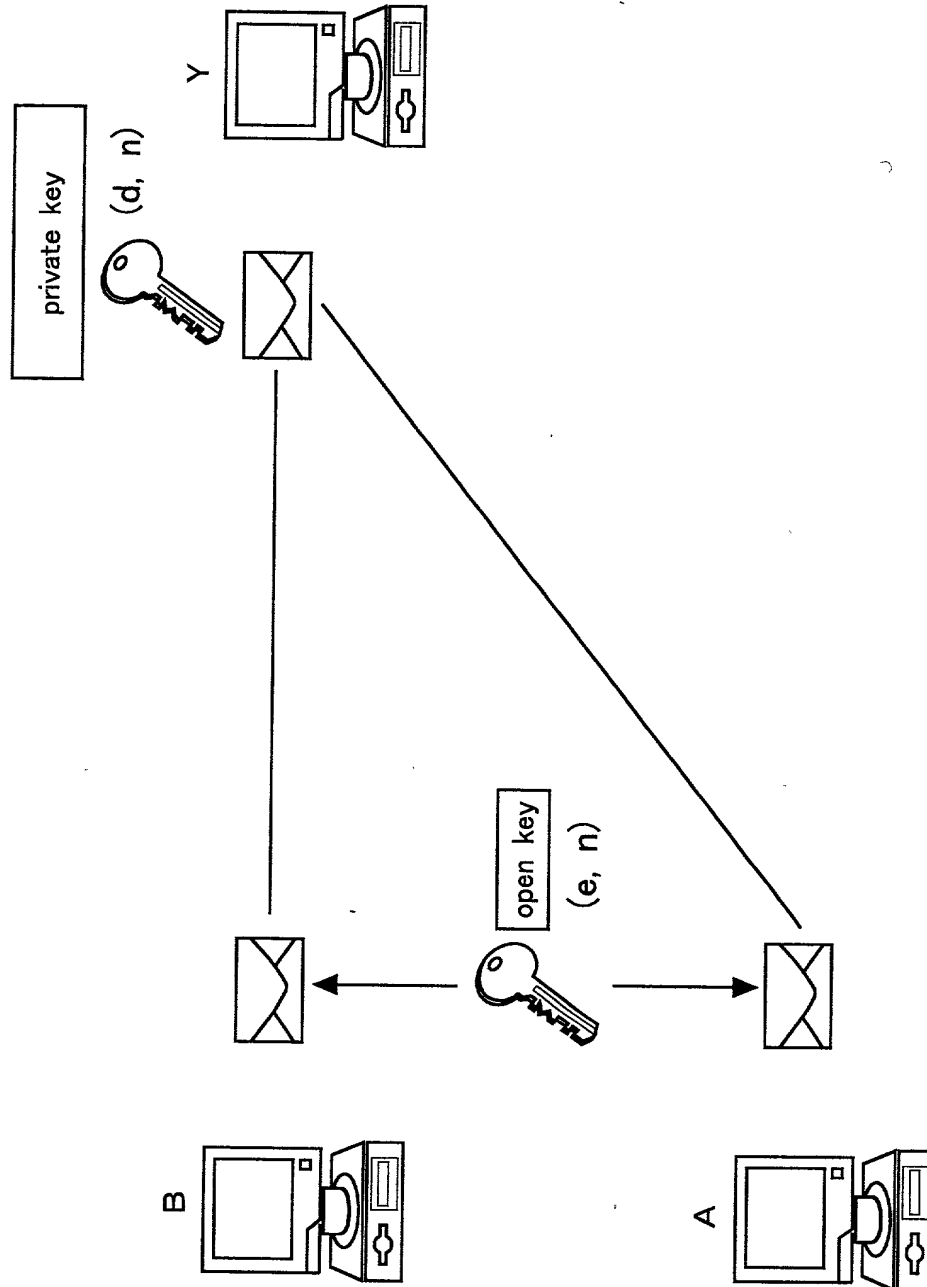


Fig.12

(a) Mr. Ito's address book

name	address	enciphering key	enciphering software	deciphering key	deciphering software
X Company	Xcp@kabu....				
(Mr.) Akiyama	Akiyama@ss....	KCia	Cia		
(Mr.) Saito	Saito@uu....				
(Mr.) Baba	Baba@yy....				

(b) Mr. Akiyama's address book

name	address	enciphering key	enciphering software	deciphering key	deciphering software
X Company	Xcp@kabu....				
(Mr.) Ito	Ito@asn....			KPia	Pia
(Mr.) Saito	Saito@uu....				
(Mr.) Baba	Baba@yy....				

[illegible][illegible]

Fig. 14

ex): in case of 5 stages

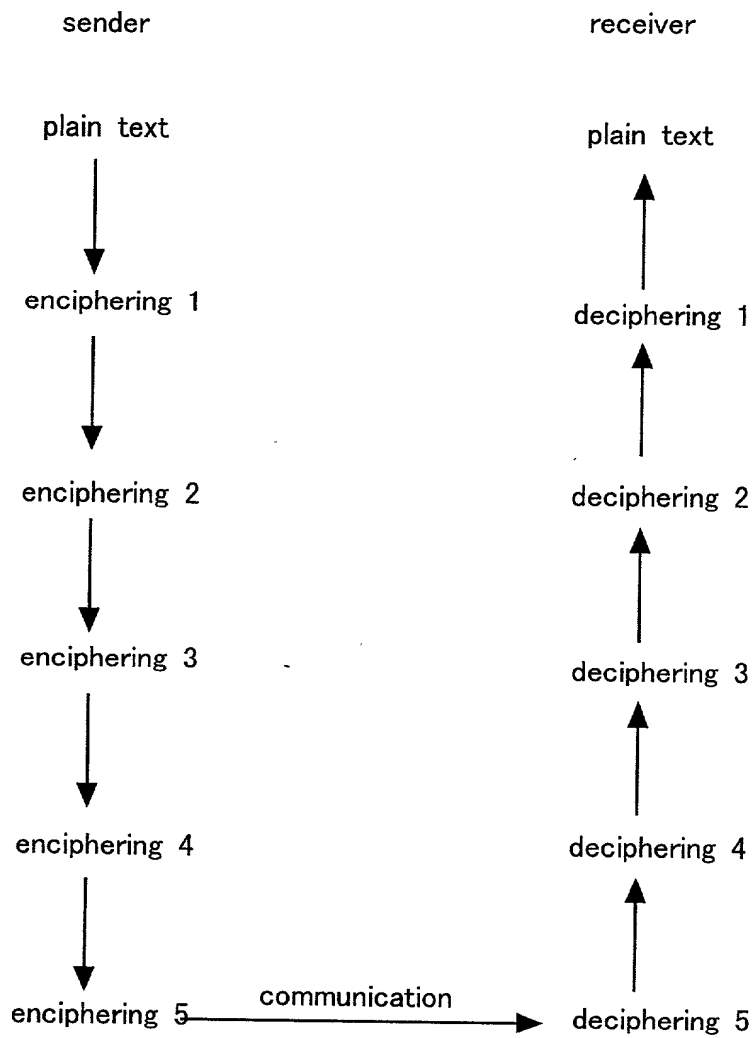


Fig. 15

name	address	enciphering '1		enciphering 2		· ·	enciphering		deciphering		
		software	key	software	key		text	attach -ment	text	attach -ment	
(Mr.) Uyama							1 2 3 4 5	4 2	1 3	5	
(Mr.) Yamada							2 5 1 3	5 1 3			

Fig. 16

name	address	enciphering 1		enciphering 2		· ·	enciphering		replacement per month (contents of the schedule file)		
		software	key	software	key		text	attach -ment	text	attach -ment	
(Mr.) Uyama							1 2 3 4 5 2 5 1 3	4 2	1 2 3 4 5 3 1 5 2 4	4 2 2 4	
(Mr.) Yamada							2 5 1 3	5 1 3	2 5 1 3 5 3 2 1	5 1 3 3 5 1	



Fig. 17

(a) the memory contents of Mr. S's telephone  
the telephone No. of Mr. S is 0901111 . . .

destination (number)	enciphering key 1	enciphering key 2	deciphering key 1	deciphering key 2
0902222...	"a-o-i-so-ra"...	O a u f e f h g o o ...	A b d e f g ...	"na-ni-ka-na"...
0903333...	"a"BR"a"EW...	C"na-mi"1" a-ra"...	J j "i-so" k "ra"	"a" b "a" t y o ...

(b) the memory contents of Mr. R's telephone  
the telephone No. of Mr. R is 0902222 . . .

destination (number)	enciphering key 1	enciphering key 2	deciphering key 1	deciphering key 2
0901111...	A b c d e f g ...	"na-ni-ka-na"...	"a-o-i-so-ra"...	O a u f e f h g o o ...
0903333...	A a g g g W ...	A 5 8 7 X O ...	4 h 3 y g 8 j g 8 5 ...	X o o o "ma" R ...

Fig. 18

voice	"Ko-n-ni-chi-wa" ("Hello" in Japanese), . . .
key 1	"a-o-i-so-ra-a-o-i-so-ra-a-o-i-so-ra-a-o-i-so-ra"
key 2	"ha-te-na-ha-te-na-ha-te-na-ha-te-na-ha-te-na"

( a )

key 1	"a-i-u-e-o-ka-ki" (written in Japanese character) . . .	1,024 bytes
key 2	a d f e o h r o r h o h f o . . .	997 bytes
key 3	1 6 4 6 7 4 2 8 7 4 4 4 5 6 . . .	991 bytes

( b )

Fig. 19

